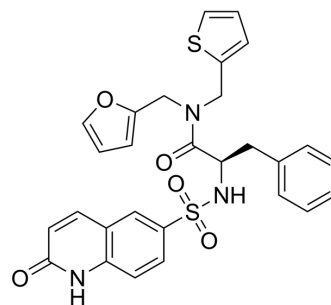


PG 34

Cat. No.:	HY-148113
CAS No.:	1681056-62-1
Molecular Formula:	C ₂₈ H ₂₅ N ₃ O ₅ S ₂
Molecular Weight:	547.65
Target:	Others
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (182.60 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.8260 mL	9.1299 mL	18.2598 mL
5 mM	0.3652 mL	1.8260 mL	3.6520 mL
10 mM	0.1826 mL	0.9130 mL	1.8260 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

PG 34 is a weak *O*-GlcNAc transferase (OGT) inhibitor (IC₅₀=68 μM), and a close structural analog of [OSMI-1](#) (HY-119738)^[1].

In Vitro

PG34 (0.5-50 μM; 24 h) shows no detectable inhibition of OGT in CHO cells, displays no effect on apoptotic signaling, and shows a moderate effect on cell viability only at the highest concentration^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay^[1]

Cell Line:	CHO cells
Concentration:	0.5-50 μM
Incubation Time:	24 hours
Result:	Inhibited cell growth moderately at 50 μM.

Western Blot Analysis^[1]

Cell Line:	CHO cells
Concentration:	10, 25, and 50 μ M
Incubation Time:	24 hours
Result:	Showed no reduction in global O-GlcNAcylation in cells.

REFERENCES

[1]. Rodrigo F Ortiz-Meoz, et al. A small molecule that inhibits OGT activity in cells. ACS Chem Biol. 2015 Jun 19;10(6):1392-7.

Caution: Product has not been fully validated for medical applications. For research use only.

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